

## **ABSTRACT**

### **METHOD AND APPARATUS FOR INTERFERENCING TDM AND PACKET BASED COMMUNICATION ON A VDSL COMMUNICATION MEDIUM**

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An method and apparatus for provisioning multiple Next and fractional T1 along  
with packet based communications over a shared X-DSL communication link is  
disclosed. The communication link may be wired or wireless. The current invention  
10 provides a method and apparatus for flexibly provisioning businesses and other high  
bandwidth users, with multiple communication channels and multiple service types,  
both packet based and SDM/TDM. An efficient and configurable method and  
apparatus for multiplexing of both packets and STM channels on to a single VDSL  
frame is disclosed. At the receiver in the NT the VDSL receiver as explained is  
15 configured to de-multiplex individual channels and route them to individual users/suits  
within the building.